

Approved by:

_____/_____/_____
Process Engineer_____/_____/_____
Equipment Engineer

1 SCOPE

The purpose of this document is to detail the use of the Blue M Oven. All users are expected to have read and understood this document. It is not a substitute for in-person training on the system and is not sufficient to qualify a user on the system. Failure to follow guidelines in this document may result in loss of privileges.

2 REFERENCE DOCUMENTS

- Material Safety Data Sheet for the materials that you are processing
- Appropriate Tool Manuals

3 DEFINITIONS

n/a

4 TOOLS AND MATERIALS

4.1 General Description

- 4.1.1 The Blue M Oven has a temperature controller and may be used to bake at atmospheric pressure.

5 SAFETY PRECAUTIONS

5.1 Hazards to the Tool

- 5.1.1 Be careful not to contaminate the shelves with your photoresist or polymer. Wafers should have clean backs.

5.2 Hazards to the Operator

- 5.2.1 The interior of the oven as well as the door will become hot during operation.

6 INSTRUCTIONS

6.1 Operating the System Using the Temperature Presets

- 6.1.1 Press the **Start Switch**.
- 6.1.2 Press the **Power** switch to turn the system on. The Main Pilot light will illuminate.
- 6.1.3 Verify N₂ gas is on in service chase and set to 5 psi. Select either N₂ or CDA on the back of the tool. Verify flow meter is reading on front left of oven.
- 6.1.4 Press the RED button corresponding to the desired set point. Use the “PUSH TO READ SET TEMPERATURE” button to verify the set point. Maximum temperature is 250C.
- 6.1.5 Turn the **Cooling** switch **ON** for temperatures below 100C.
- 6.1.6 Insert wafers when the temperature on the Temperature Indicator reaches set point. Minimize the door-open time.
- 6.1.7 Remove wafers at the appropriate time.
- 6.1.8 Turn off N₂ or CDA on the back of the tool, and N₂ on the manifold in service chase.
- 6.1.9 Turn the **Power** switch **OFF**.
- 6.1.10 Turn off the system with the Normal Stop Switch.

6.2 Operating the System Using the Manual Set Points

- 6.2.1 Press the **Start Switch**.
- 6.2.2 Press the **Power** switch to turn the system on. The Main Pilot light will illuminate.
- 6.2.3 Verify N₂ gas is on in service chase and set to 5 psi. Verify flow meter is reading on front left of oven.
- 6.2.4 To manually set a temperature, none of the RED buttons labeled “PRESS TO SET TEMPERATURE” should be depressed. If one is pressed, press a different one part way so that the first one comes up.

- 6.2.5 Set the target temperature using the thumb wheel labeled **Manual Temperature Setting**. Turn the **Cooling** switch **ON** for temperatures below 100C. Maximum temperature is 250C.
- 6.2.6 When the chamber temperature reaches the set temperature, the wafers can be inserted into the chamber.
- 6.2.7 Remove wafers at the appropriate time.
- 6.2.8 Turn off N₂ or CDA on the back of the tool, and N₂ on the manifold in service chase.
- 6.2.9 Turn the **Power** switch **OFF**.
- 6.2.10 Turn off the system with the **Normal Stop Switch**.

7 APPROPRIATE USES OF THE TOOL

- 7.1 Use only wafers that have clean backs to avoid contaminating the system.

REVISION RECORD

Summary of Changes	Originator	Rev/Date
Original Issue	Sean O'Brien	A-11/30/2009